

SUPPLY AND DEMAND ANALYSIS

To determine the quantity of alternative water sources required to meet projected irrigation demands, future urban irrigation supply was compared to projected demand. The demands presented above in Tables 12 and 13 were compared to the existing and projected reclaimed water. Tables 20 and 21 present the surplus/deficit summary for the current and future conditions, demonstrating the need for the water sources. Cape Coral demands will be mitigated by the alternative supply source and a contribution from North Ft. Myers through the interconnect. Figure 8 and Figure 9 displays the surplus and deficit for the current and future scenario respectively.

Table 20
Surplus/Deficit Analysis – Current (2003)

Facility	Monthly Surplus/Deficit (MGD)												Annual Average (MGD)
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
Cape Coral	(12.3)	(15.1)	(11.5)	(13.9)	(17.1)	(8.7)	(6.4)	(1.2)	0.6	(12.5)	(16.2)	(15.7)	(10.8)
North Ft. Myers	0.8	0.6	0.8	0.6	0.5	1.2	1.0	1.6	1.4	0.3	0.9	0.9	0.9
Waterway Estates	0.9	0.8	0.7	0.7	0.7	0.8	1.2	1.4	1.6	1.0	0.9	0.9	1.0
Total Monthly Flow (MGD)	(12.3)	(15.1)	(11.5)	(13.9)	(17.1)	(8.7)	(6.4)	(1.2)	0.6	(12.5)	(16.2)	(15.7)	(10.8)

Table 21
Surplus/Deficit Analysis – Future (2020)

Facility	Monthly Surplus/Deficit (MGD)												Annual Average (MGD)
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
Cape Coral	20.5	13.8	22.5	16.6	9.0	2.4	7.9	20.5	24.2	(6.7)	(15.6)	12.1	10.6
North Ft. Myers	(19.4)	(17.0)	(19.5)	(15.3)	(16.2)	(18.3)	(20.4)	(25.2)	(13.8)	(12.2)	(13.8)	(21.5)	(17.7)
Waterway Estates	(2.8)	(3.2)	(2.8)	(3.0)	(3.5)	(2.7)	(2.2)	(1.8)	(1.9)	(2.9)	(3.5)	(3.3)	(2.8)
Total Monthly Flow (MGD)	(1.7)	(6.4)	0.2	(1.7)	(10.7)	(18.5)	(14.7)	(6.5)	8.6	(21.9)	(32.9)	(12.7)	(9.9)

Note: Wet months are July, August, September, and October. The transitional months are June and November.



